

SEQUENCE LISTING

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<120> MODIFIED BACTERIAL SURFACE LAYER PROTEINS

<130> N83122A SMW/KR

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<170> PatentIn version 3.1

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<212> DNA

<213> L. acidophilus

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ccagtagttg ttactgttcc taatgttgct gagccaactg tagccagcgt aagcaagaga	960
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Ala	Lys	Tyr	Asp	Val	Asp	Val	Thr	Pro	Ser	Val	Ser	Ala	Val	Ala	Ala	20	25	30	
Asn	Thr	Ala	Asn	Asn	Thr	Pro	Ala	Ile	Ala	Gly	Asn	Leu	Thr	Gly	Thr	35	40	45	
Ile	Ser	Ala	Ser	Tyr	Asn	Gly	Lys	Thr	Tyr	Thr	Ala	Asn	Leu	Lys	Ala	50	55	60	
Asp	Thr	Glu	Asn	Ala	Thr	Ile	Thr	Ala	Ala	Gly	Ser	Thr	Thr	Ala	Val	65	70	75	80
Lys	Pro	Ala	Glu	Leu	Ala	Ala	Gly	Val	Ala	Tyr	Thr	Val	Thr	Val	Asn	85	90	95	
Asp	Val	Ser	Phe	Asn	Phe	Gly	Ser	Glu	Asn	Ala	Gly	Lys	Thr	Val	Thr	100	105	110	
Leu	Gly	Ser	Ala	Asn	Ser	Asn	Val	Lys	Phe	Thr	Gly	Thr	Asn	Ser	Asp	115	120	125	
Asn	Gln	Thr	Glu	Thr	Asn	Val	Ser	Thr	Leu	Lys	Val	Lys	Leu	Asp	Gln	130	135	140	
Asn	Gly	Val	Ala	Ser	Leu	Thr	Asn	Val	Ser	Ile	Ala	Asn	Val	Tyr	Ala	145	150	155	160
Ile	Asn	Thr	Thr	Asp	Asn	Ser	Asn	Val	Asn	Phe	Tyr	Asp	Val	Thr	Ser	165	170	175	
Gly	Ala	Thr	Val	Thr	Asn	Gly	Ala	Val	Ser	Val	Asn	Ala	Asp	Asn	Gln	180	185	190	
Gly	Gln	Val	Asn	Val	Ala	Asn	Val	Val	Ala	Ala	Ile	Asn	Ser	Lys	Tyr	195	200	205	

Phe Ala Ala Gln Tyr Ala Asp Lys Lys Leu Asn Thr Arg Thr Ala Asn
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 Thr Glu Asp Ala Ile Lys Ala Ala Leu Lys Asp Gln Lys Ile Asp Val
 225 230 235 240
 Asn Ser Val Gly Tyr Phe Lys Ala Pro His Thr Phe Thr Val Asn Val
 245 250 255
 Lys Ala Thr Ser Asn Thr Asn Gly Lys Ser Ala Thr Leu Pro Val Val
 260 265 270
 Val Thr Val Pro Asn Val Ala Glu Pro Thr Val Ala Ser Val Ser Lys
 275 280 285
 Arg Ile Met His Asn Ala Tyr Tyr Tyr Asp Lys Asp Ala Lys Arg Val
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 Gly Thr Asp Ser Val Lys Arg Tyr Asn Ser Val Ser Val Leu Pro Asn
 305 310 315 320
 Thr Thr Thr Ile Asn Gly Lys Thr Tyr Tyr Gln Val Val Glu Asn Gly
 325 330 335
 Lys Ala Val Asp Lys Tyr Ile Asn Ala Ala Asn Ile Asp Gly Thr Lys
 340 345 350
 Arg Thr Leu Lys His Asn Ala Tyr Val Tyr Ala Ser Ser Lys Lys Arg
 355 360 365
 Ala Asn Lys Val Val Leu Lys Lys Gly Glu Val Val Thr Thr Tyr Gly
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Ile Asn

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Ala Ile Ala Gly Asn Ala Met Ala Ala Ala Arg Gly Asn Leu Thr Gly
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Thr Ile

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Val Lys Phe Thr Gly Ala Met Ala Ala Ala Arg Ala Gly Thr Asn Ser
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Asp Asn

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Val Thr

<210> 8

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Asn Ala Ala Asn Ile Val Ala Met Ala Ala Ala Arg Gly Asp Gly Thr
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Lys Arg

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Asn Thr

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Leu Lys Ala Asp Thr Met Ala Ala Ala Arg Asn Thr Glu Asn Ala Thr
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Ala Glu Leu Ala Ala Ser Met Ala Ala Ala Arg Gly Ala Gly Val Ala
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Tyr Thr

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Lys Thr Val Thr Leu Ala Met Ala Ala Ala Arg Gly Leu Gly Ser Ala
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Asn Ser

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Asn Ala Asp Asn Gln Ala Met Ala Ala Ala Arg Gly Gln Val Asn Val
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Ala Asn

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<210> 17

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Arg Gly Ile

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